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The stress field before/after the 1995 Kobe earthquake directly derived from a huge number of first motion polarities

Hiroshi Katao^{1*}

¹DPRI, Kyoto Univ.

In order to derive detailed crustal stress field, we tried to calculate regional stress field directly from a huge number of first motion polarity data using the algorithm by Horiuchi et al, (1995). Especially, the direct calculation method in this study is suitable for the Abuyama's old data to investigate the stress field in the northern Kinki district before/after the Hyogo-ken Nanbu earthquake in 1995. Because, the data set of the Abuyama Observatory in the last century is very precise, but number of station was too small to derive the mechanisms of each earthquakes.

Keywords: stress field, the 1995 Kobe earthquake, polarity of first motion